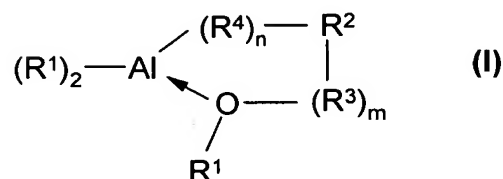


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

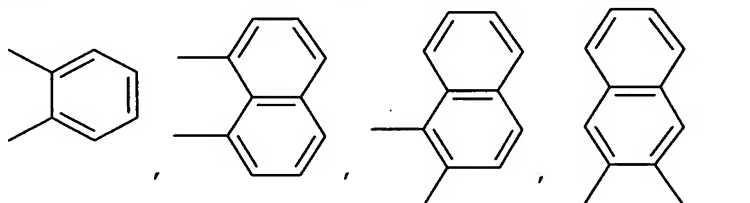
1. (Original) Compounds of the general formula (I)



in which

R^1 , independently of one another, denote branched or unbranched $\text{C}_1\text{-C}_7$ -alkyl, -cycloalkyl, -alkenyl, -cycloalkenyl, -aryl or -alkynyl;

R^2 denotes unsubstituted, mono- or polyalkylated and/or mono- or polyfluorinated aromatic hydrocarbons from the group



R^3 , R^4 , independently of one another, denote CH_2 , CF_2 or $\text{C(R}^1\text{)}_2$;
independently of one another,

m denotes 0, 1, 2

n denotes 0, 1, 2.

2. (Original) (8-Ethoxynaphth-1-yl)diethylaluminium,
(2-methoxymethyl)phen-1-yl)diethylaluminium,
(2-methoxymethylphen-1-yl)diisobutylaluminium,
(2-methoxybenzyl)diisobutylaluminium
[2-(methoxy)phen-1-yl]diisobutylaluminium
[2-(butoxy)phen-1-yl]diisobutylaluminium
as compounds according to Claim 1.

3. (Currently Amended) Use of the compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~ as components in coordination catalyst systems.
4. (Currently Amended) Use of the compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~ as components in Ziegler-Natta catalysts.
5. (Currently Amended) Coordination catalyst systems comprising compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~.
6. (Currently Amended) Coordination catalyst systems comprising compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~ in combination with transition-metal compounds from sub-group IV to VIII of the Periodic Table of the Elements.
7. (Currently Amended) Coordination catalyst systems comprising compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~ in combination with transition-metal compounds from the group TiCl_4 , VCl_4 .
8. (Currently Amended) Coordination catalyst systems comprising compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~, characterised in that they comprise transition-metal compounds from the group TiCl_4 , VCl_4 , which are supported on MgCl_2 .
9. (Currently Amended) Process for the preparation of polymers by polymerisation, characterised in that a coordination catalyst system according to Claim 5 ~~one of Claims 5 to 8~~ is used.
10. (Currently Amended) Process for the preparation of polyethylene, characterised in that a coordination catalyst system according to claim 5 ~~one of Claims 5 to 8~~ is used.
11. (Currently Amended) Process for the preparation of high-molecular-weight polyethylene, characterised in that a coordination catalyst system according to claim 5 ~~one of Claims 5 to 8~~ is used.
12. (Currently Amended) Process for the preparation of compounds of the general formula (I) according to Claim 1 ~~or according to Claim 2~~, characterised in that an alkoxyarylmetal compound is reacted with a dialkylaluminium chloride,

where the alkoxyarylmethyl compound to dialkylaluminium chloride molar ratio is 1:1.

13. (Original) Process according to Claim 12, characterised in that
- a) an alkoxyarylmethyl compound, suspended in a hydrocarbon, diethyl ether or tetrahydrofuran, is mixed with an equimolar amount of a dialkylaluminium chloride, dissolved in a suitable hydrocarbon, at a temperature of +20 to -78°C,
 - b) the mixture is stirred at a temperature of 20 to 80°C for 2 to 60 hours, the solvent is removed, and the desired reaction product is separated off by distillation or crystallisation.
14. (Currently Amended) Process according to Claim 12 ~~Claims 12 to 13~~, characterised in that the alkoxyarylmethyl compound employed is an alkoxyaryllithium or alkoxyaryl-Grignard compound.